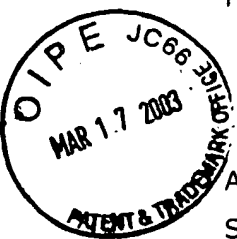


PLY-103US

PATENT

2613
36
03/26/03



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: James A. Aman & William R. Haller : Art Unit 2613
Serial No.: 10/006,444 : Examiner
Filed: November 20, 2001 :
For: OPTIMIZATIONS FOR LIVE EVENT, :
REAL-TIME, 3D OBJECT TRACKING :

INFORMATION DISCLOSURE STATEMENT

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MAR 20 2003

Assistant Commissioner for Patents
Washington, D.C. 20231

Technology Center 2600

S I R :

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449 (R&P) submitted herewith.

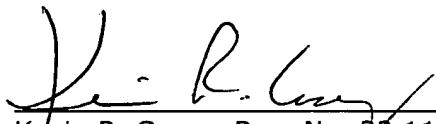
Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

Under 37 C.F.R. § 1.98(d), copies of the patents and publications listed on the enclosed PTO Form 1449 are not required to be provided, because they were cited by or submitted to the Patent and Trademark Office in prior applications Serial No. 09/197,219, filed November 20, 1998; Serial No. 09/510,922, filed February 22, 2000; and Serial No. 09/881,430, filed June 14, 2001, which ^{are} ~~is~~ relied upon for an earlier filing date under 35 U.S.C. § 120.

No first Official Action has yet been received and it is presumed that none has yet been mailed. No fee or certification is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,



Kevin R. Casey, Reg. No. 32,117
Attorney for Applicants

KRC/kak

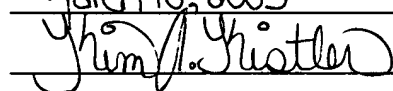
Enclosure: PTO Form 1449

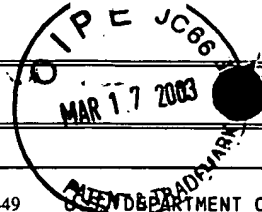
Dated: March 10, 2003

Suite 301
One Westlakes, Berwyn
P.O. Box 980
Valley Forge, PA 19482-0980
(610) 407-0700

The Assistant Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. 18-0350 of any fees associated with this communication.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on:

March 10, 2003




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	APPLICANT James A. Aman & William R. Haller		
	FILING DATE November 20, 2001	GROUP 2613	

U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	6,308,565	10/30/01	French et al.			
	6,079,862	06/27/00	Kawashima et al.			
	6,073,489	06/13/00	French et al.			
	6,061,644	05/9/00	Leis			
	5,912,700	06/15/99	Honey et al.			
	5,768,151	06/16/98	Lowy et al.			
	5,734,343	03/31/98	Urbish et al.			
	5,731,785	03/24/98	Lemelson et al.			
	5,700,204	12/23/97	Teder			
	5,647,015	07/1997	Choate et al.			
	5,617,335	04/01/97	Hashima et al.			
	5,602,760	02/1997	Chacon et al.			
	5,564,698	10/15/96	Honey et al.			
	5,508,736	04/16/96	Cooper			
	5,504,477	04/02/96	Whitright et al.			
	5,489,886	02/06/96	Wexler et al.			
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	5,473,369	12/05/95	Abe			
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	5,446,701	08/29/95	Utke et al.			
	5,413,345	05/09/95	Nauck			
	5,406,501	04/1995	Florent			
	5,401,026	03/28/95	Eccher et al.			
	5,394,824	03/07/95	Johnson, Jr.			
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	5,138,322	08/11/92	Nuttall			
	5,082,263	01/21/92	Berger			
	5,023,709	06/11/91	Kita et al.			

Examiner	Date Considered
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Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	APPLICANT James A. Aman & William R. Haller	
	FILING DATE November 20, 2001	GROUP 2613

U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	4,980,871	12/25/90	Sieber et al.			
	4,905,315	02/27/90	Solari et al.			
	4,866,414	09/12/89	Diaconu et al.			
	4,764,668	08/16/88	Hayard			
	4,673,183	06/16/87	Trahan			
	4,664,378	05/12/87	Van Auken			
	4,675,816	06/23/87	Brandon et al.			
	4,545,576	10/08/85	Harris			
	4,539,590	09/03/85	Gage			
	4,189,747	02/1980	Funari			

FOREIGN PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Country	Class	Sub Class	Translation YES NO
	EP 0 959 444	11/24/99	EPO			
	EP 0 813 040	12/17/97	EPO			
	FR 2 726 370	05/03/96	France			
	UK 2 191 361	12/09/87	United Kingdom			
	WO 95/10915	04/20/95	PCT			
	WO 97/02699	01/23/97	PCT			
	WO 98/46029	10/15/98	PCT			
	WO 99/44698	09/10/99	PCT			
	WO 00/31560	06/02/00	PCT			

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

1)	International Search Report Dated March 23, 2000.
2)	International Search Report Dated July 5, 2000.
3)	International Search Report Dated June 19, 2001.
4)	"Trakus Inc.'s Technology Tracks Athletes' Every Move," Boston Business Journal (Oct. 23-29, 1998).
5)	"Gauging The Big Hit," Popular Science, Vol. 254, No. 4 (April 1999).

Examiner	Date Considered
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Sheet 3 of 3

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
 PATENT AND TRADEMARK OFFICE

FORM PTO-1449 (Rev. 2-32)

Information Disclosure Statement by Applicant

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ATTY. DOCKET NO. PLY-103US	SERIAL NO 10/006,444
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OTHER DOCUMENTS (Continued)
 (Including Author, Title, Date, Pertinent Pages, Etc.)

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	6)	"Stats With Impact," The New York Times, Sec. 6 (Nov. 22, 1998).
	7)	"Body Speed, Power Stats Going Digital," Street & Smith's Sportsbusiness Journal, Vol. 1, Issue 33 (Dec. 7-13, 1998).
	8)	"How Hard is a Football Hit?," Inventor's Business Daily (Oct. 23, 1998).
	9)	"Much Ado About Nothing," Charles Whipple, pp. 24-25, In October 1998 Photonics Spectra.
	10)	Qualisys North America Home Page - Precision 3D Motion Capture (May 25, 2001).
	11)	Vicon 512 product information of Oxford Metrics Ltd. (February 1999).
	12)	Vicon 250 product information of Oxford Metrics Ltd. (at least as early as February 1999).
	13)	Vicon Cameras product information of Vicon Motion Systems Ltd. (March 2001).
	14)	Vicon 8 product information of Vicon Motion Systems Ltd. (August 2001).
	15)	Visualeyez™ Tracking Unit Specifications of PTI 3D Motion-Tracking Systems (August 2001).
	16)	ELITEPlus Motion Analyser product information (August 2001).
	17)	RealTime Hires 3D System product information of Motion Analysis Corporation (August 27, 2001).
	18)	Peak Performance Technologies, Inc. product information (August 2001).
	19)	Northern Digital Inc. product information (August 2001).
	20)	Micromak GmbH product information (August 2001).
	21)	Ariel Dynamics Inc. product information (August 2001).
	22)	Saga - 3 ^{RT} product information (August 2001).
	23)	CODA System product information of Chamwood Dynamics Ltd. (August 2001).

Examiner	Date Considered
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